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TITLE: RADIATION-CURABLE COATING COMPOSITION
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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To produce a composition having excellent adhesivity to metals, especially tinplate, and excellent coating film properties, by compounding a reactive oilgomer, a compound having methacryloyl group and tetrahydrofurfuryl group, and phosphoric acid ester of acrylate, etc.

CONSTITUTION: The objective composition can be produced by compounding (A) a reactive oligomer having ≥ 2 polymerizable unsaturated groups in the molecule, (B) a compound having methacryloyl group or acryloyl group and tetrahydrofurfuryl group in the molecule, e.g. the compound of formula I (R1 is H or methyl) and (C) phosphoric acid ester of monohydroxyalkyl methacrylate or acrylate, e.g. the compound of formula II (m is 1 or 2; n is 3-m). The amounts of the components A, B and C are 5 \square 90(wt)%, 5 \square 70% and 2 \square 50%, respectively. The compound A is e.g. unsaturated polyester, polyester (meth) acrylate, etc.

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